isolated from yeast.

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## AMENDMENTS TO THE CLAIMS:

The claims as currently presented and under consideration, are presented below for the Examiner's convenience and to comply with 37 CFR §1.121:

- 7. (Original): The method of Claim 6 wherein said yeast is Saccharomyces cerevisiae.
- 8. (Original): The method of Claim 2 wherein said HAC1 protein is encoded by a nucleic acid isolated from filamentous fungi.

6. (Original): The method of Claim 2 wherein said HAC1 protein is encoded by a nucleic acid

- 9. (Original): The method of Claim 8 wherein said fungi is from Trichoderma.
- 10. (Original): The method of Claim 8 wherein said fungi is Trichoderma reesei.
- 11. (Original): The method of Claim 8 wherein said fungi is from Aspergillus.
- 12. (Original): The method of Claim 8 wherein said fungi is Aspergillus nidulans.
- 13. (Original): The method of Claim 8 wherein said fungi is Aspergillus niger.
- 14-25. (Cancelled)
- 26. (Currently amended): The method of Claim 1 Claim 2 wherein said eukaryotic cell is selected from the group consisting of Aspergillus, Trichoderma, Saccharomyces, Schizosaccharomyces, Kluyveromyces, Pichia, Hansenula, Fusarium, Neurospora, and Penicillium.
- 27. (Currently amended): The method of Claim 1 Claim 2 wherein said <u>eukaryotic</u> cell is a yeast cell.
- 28. (Original): The method of Claim 27 wherein said yeast is Saccharomyces cerevisiae.
- 29. (Currently amended): The method of Claim 1 Claim 2 wherein said eukaryotic cell is a filamentous fungi.
- 30. (Original): The method of Claim 29 wherein said fungi is from Trichoderma.
- 31. (Original): The method of Claim 29 wherein said fungl is Trichoderma reesei.
- 32. (Original): The method of Claim 29 wherein said fungi is from Aspergillus.
- 33. (Original): The method of Claim 29 wherein said fungi is Aspergillus nidulans.
- 34. (Original): The method of Claim 29 wherein said fungi is Aspergillus niger.
- 35. (Cancelled)

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- 36. (Currently amended): The method of Claim 1 Claim 2 wherein said eukaryotic cell is a mammalian cell.
- 37-82. (Cancelled)
- 83. (Withdrawn) A cell containing a heterologous nucleic acid encoding a yeast or filamentous fungi protein having unfolded protein response modulating activity and a heterologous nucleic acid encoding a protein of interest to be secreted.
- 84. (Withdrawn): The cell of Claim 83 wherein said protein having unfolded protein response modulating activity is a fungal HAC1.
- 85. (Withdrawn): The cell of Claim 83 wherein said protein of interest is selected from the group consisting of lipase, cellulase, endo-glucosidase H, protease, carbohydrase, reductase, oxidase, isomerase, transferase, kinase, phosphatase, alpha-amylase, glucoamylase, ligtnocellulose hemicellulase, pectinase and ligninase.
- 86. (Cancelled)
- 87. (Withdrawn): The cell of Claim 83 wherein said protein having unfolded protein response modulating activity is a yeast HAC1.
- 88. (Cancelled):
- 89. (Currently amended): The method of Claim 1 Claim 2 wherein said UPR-modulating protein comprises a DNA binding domain that has at least 90% similarity identity to a the DNA binding domain set forth in Figure 19 of a) amino acid residues 84 147 of SEQ ID NO; 5 or b) amino acid residues 53 116 of SEQ ID NO; 6.
- 90. (Currently amended): The method of Glaim 1 Claim 2 wherein said UPR-modulating protein comprises a DNA binding domain that has at least 95% similarity identity to a the DNA binding domain set forth in Figure 10 of a) amino acid residues 84 147 of SEQ ID No: 5 or b) amino acid residues 53 116 of SEQ ID No: 6 or c) amino acid residues 45 116 of SEQ ID No: 19.

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- 91. (Currently amended): The method of Glaim 1 Claim 2 wherein said UPR-modulating protein comprises a DNA binding domain having the DNA binding domain of amino acid residue positions 84 to 147 of SEQ ID NO: 5.
- 92. (Currently amended): The method of Claim 1 Claim 2 wherein said UPR-modulating protein comprises a DNA binding domain having the DNA binding domain of amino acid residue positions of 53 to 116 of SEQ ID NO: 6.
- 93. (Currently amended): The method of <u>Claim 1 Claim 2</u>, wherein said heterologous protein is selected from the group consisting of lipases, cellulases, endo-glucosidase H, proteases, carbohydrases, reductases, oxidases, isomerases, transferases, kinases, phosphatases, alphaamylases, glucoamylases, hemicellulases, pectinases and ligninases.
- 94. (Previously presented): The method of Claim 93, wherein the heterologous protein is a protease, cellulase, glucoamylase or alpha amylase.
- 95. (Currently amended): The method of Claim 1 Claim 2, wherein the eukaryotic cell is a Trichoderma or Aspergillus fungal cell, the UPR-modulating protein comprising a DNA binding domain has at least 90% sequence similarity identity to a-the DNA binding domain set forth in Figure 10 of a) amino acid residues 84 147 of SEQ ID NO: 5 or b) amino acid residues 53 116 of SEQ ID NO: 6 and the heterologous protein is selected from the group consisting of proteases, cellulases, glucoamylases, alpha amylases and combination thereof.
- 96. (New): The method of Claim 95, wherein the eukaryotic cell is a Trichoderma cell and the UPR-modulating protein comprises a DNA binding domain that has at least 95% sequence identity to the DNA binding domain of a) amino acid residues 84 147 of SEQ ID NO: 5 or b) amino acid residues 53 116 of SEQ ID NO: 6.
- 97. (New): The method of Claim 95, wherein the eukaryotic cell is an Aspergillus cell and the UPR-modulating protein comprises a DNA binding domain that has at least 95% sequence similarity to the DNA binding domain of a) amino acid residues 84 147 of SEQ ID NO: 5; b) amino acid residues 53 116 of SEQ ID NO: 6.

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98. (New) The method of Claim 2, further comprising a promoter operably linked to the nucleic acid encoding the HAC1 UPR-modulating protein, said promoter selected from the group consisting of *cbh*1, *gpd*A, *adh*1 and *pgk*1.